

SUPPLEMENTAL DIGITAL CONTENT 2

TABLE. Time-specific Transition Probabilities Between Health States: After Cervical Total Disc Replacement for Treatment of 2-Level Symptomatic Disc Disease

Transit From Health State	Transit to Health State					Markov Cycle Length	Time Range
	Mild	Moderate	Severe	Crippled	Bedbound		
Mild	-	-	-	-	-	6 weeks	0 to 6 weeks
	91.2	7.9	0.6	0.3	0.0	6 weeks	6 weeks to 6 months
	80.0	11.4	5.7	2.1	0.7	6 months	6 months to 1 year
	91.2	6.5	1.6	0.5	0.2	6 months	1 to 2 years
	91.7	5.0	3.3	0.0	0.0	6 months	3 year and beyond
Moderate	71.4	28.6	0.0	0.0	0.0	6 weeks	0 to 6 weeks
	40.4	28.1	28.1	3.5	0.0	6 weeks	6 weeks to 6 months
	21.7	47.8	21.7	8.7	0.0	6 months	6 months to 1 year
	23.5	62.0	11.3	3.2	0.0	6 months	1 to 2 years
	21.5	68.0	9.0	1.5	0.0	6 months	3 year and beyond
Severe	47.2	28.3	20.8	3.8	0.0	6 weeks	0 to 6 weeks
	33.3	16.7	25.0	20.8	4.2	6 weeks	6 weeks to 6 months
	15.8	10.5	52.6	21.1	0.0	6 months	6 months to 1 year
	8.2	26.1	45.5	20.2	0.0	6 months	1 to 2 years
	7.9	18.5	53.3	20.3	0.0	6 months	3 year and beyond
Crippled	34.2	33.3	24.4	8.1	0.0	6 weeks	0 to 6 weeks
	4.3	8.5	40.4	42.6	4.3	6 weeks	6 weeks to 6 months

	10.0	20.0	20.0	40.0	10.0	6 months	6 months to 1 year
	4.2	9.9	28.2	53.5	4.2	6 months	1 to 2 years
	1.6	14.4	22.1	61.9	0.0	6 months	3 year and beyond
Bedbound	20.9	30.2	25.6	20.9	2.3	6 weeks	0 to 6 weeks
	0.0	0.0	0.0	0.0	100.0	6 weeks	6 weeks to 6 months
	0.0	33.3	0.0	33.3	33.3	6 months	6 months to 1 year
	10.0	10.0	10.0	30.0	40.0	6 months	1 to 2 years
	0.0	0.0	10.0	30.0	60.0	6 months	3 year and beyond